*RoHS COMPLIANT

BOURNS®

Features

■ Carbon element
■ 10-30 mm travel
■ Center detent option
■ Single or dual gang
■ RoHS compliant*

⚠ The Model PDV Series is currently available, but not recommended for new designs.

PDV Series - Open Frame Slide Potentiometer

Electrical Characteristics

Taper....................................Linear, audio
Standard Resistance Range
.......................1 K ohms to 1 M ohms
Standard Resistance Tolerance.....±20 %
Residual Resistance
....................100 ohms or ±5 % max.

Environmental Characteristics

Operating Temperature...-10 °C to +50 °C
Power Rating
    Linear ....0.1 watt
    Audio....................................0.05 watt
Maximum Operating Voltage - Linear
    10 mm Travel.........................100 VAC
    15 mm Travel.........................100 VAC
    20 mm Travel.........................200 VAC
    30 mm Travel.........................200 VAC
Maximum Operating Voltage - Audio
    10 mm Travel...........................50 VAC
    15 mm Travel...........................50 VAC
    20 mm Travel.........................150 VAC
    30 mm Travel.........................150 VAC
Sliding Noise .... 47 mV max.

Mechanical Characteristics

Operating Force .... 20 to 300 g-cm
Detent Torque................. 50 to 400 g-cm
Lever Stop Strength ....3 kg-cm min.
Sliding Life........................ 10,000 cycles
Std. Stroke Length ..... 10, 15, 20, 30 mm
Soldering Condition
    Wave .... 260 °C for 3 sec. max.
    Manual....................Not recommended

How To Order

PDV 10 - 2 1 P - 102 A

Model
Length of Travel
 • 10 = 10 mm
 • 15 = 15 mm
 • 20 = 20 mm
 • 30 = 30 mm
Detent Option
 • 2 = No Detent
 • 3 = Center Detent
Number of Gangs
 • 1 = Single Gang
 • 2 = Dual Gang
Mounting Type
(refer to drawings)
 • P = Vertical Pins
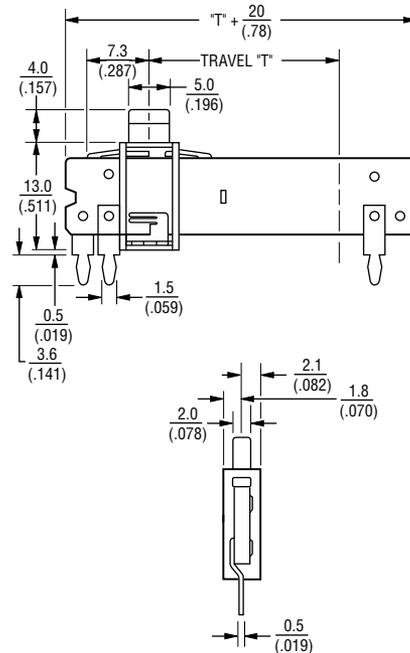 • M = Horizontal Pins
Resistance Code (See Table)
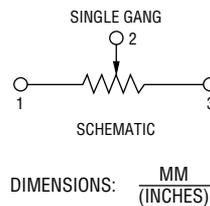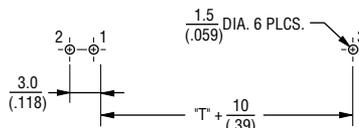Resistance Taper
 • A = Audio Taper
 • B = Linear Taper
Other styles available.

Product Dimensions

PDVxx-x1P

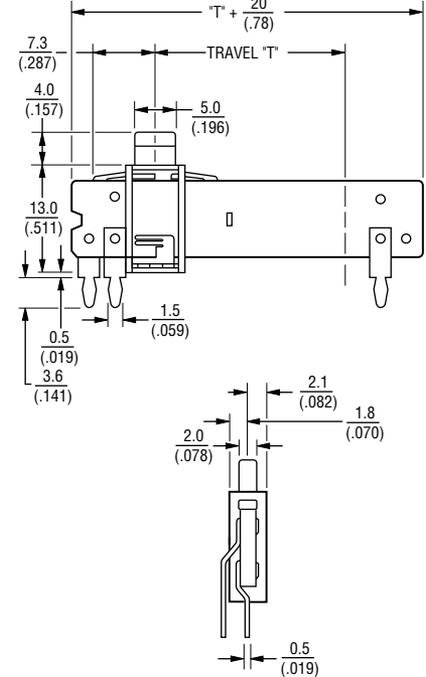RECOMMENDED PCB LAYOUT

SINGLE GANG

SCHEMATIC

DIMENSIONS: $\frac{MM}{(INCHES)}$

PDVxx-x2P

RECOMMENDED PCB LAYOUT
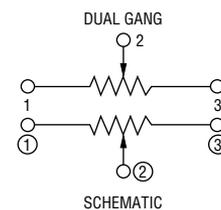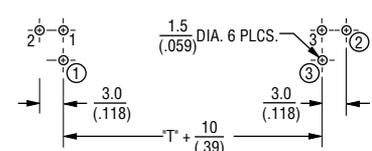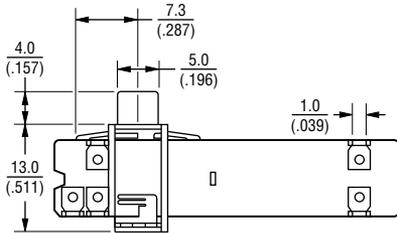
DUAL GANG

SCHEMATIC

Applications

■ Audio/TV sets
■ Car radio
■ Amplifiers/mixers/drum machines/
  synthesizers
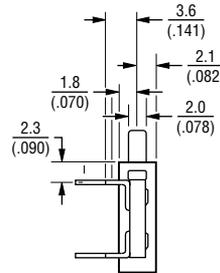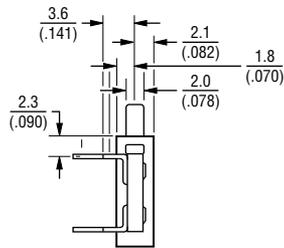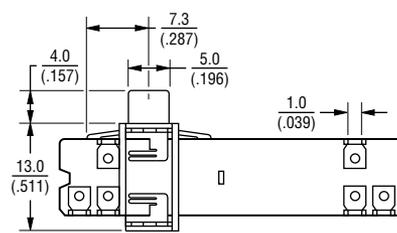■ PCs/monitors
■ Appliances

PDV Series - Open Frame Slide Potentiometer   **BOURNS**®
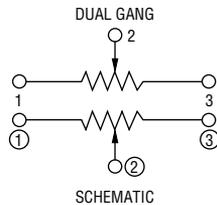
Product Dimensions

PDVxx-x1M

PDVxx-x2M

RECOMMENDED PCB LAYOUT

RECOMMENDED PCB LAYOUT

SINGLE GANG

SCHEMATIC

DUAL GANG

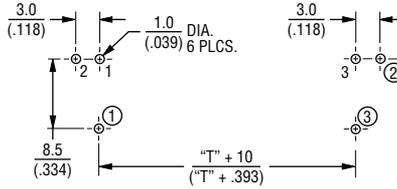SCHEMATIC
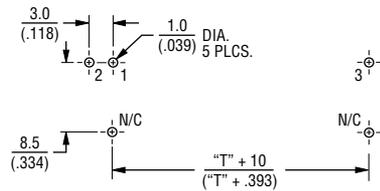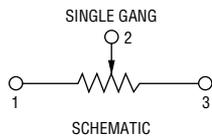
DIMENSIONS: $\dfrac{\text{MM}}{\text{(INCHES)}}$

Standard Resistance Table

Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

Derating Curve
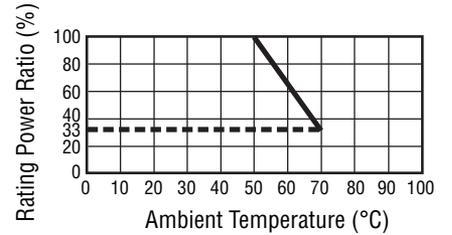
Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Bourns](#):

  PDV20-31P-103A   PDV20-32P-103B   PDV20-31P-103B   PDV20-32P-103A   PDV15-21M-103A   PDV30-21D-202B

PDV30-31D-202B   PDV20-21H-502A   PDV10-31P-104B   PDV20-31P-504A   PDV20-21P-504B   PDV30-21M-103B

PDV15-21H-103A   PDV20-21M-103A   PDV15-32P-104B   PDV15-22P-104B   PDV15-31P-102B   PDV15-21P-103A

PDV10-21P-103A   PDV30-31M-202B   PDV20-21M-202B   PDV30-21M-104B   PDV20-21P-203B   PDV20-32P-203B

PDV20-31P-203B   PDV20-32P-203A   PDV20-31P-203A   PDV30-21P-103A   PDV20-32P-502A   PDV20-31P-503A

PDV20-32P-502B   PDV20-31P-502B   PDV20-31P-502A   PDV20-32P-503A   PDV20-32P-503B   PDV20-31P-503B

PDV20-21D-103B   PDV10-21M-103B   PDV15-21M-203B   PDV10-21P-203B   PDV20-21P-104B   PDV20-31P-104B

PDV20-31P-104A   PDV30-21D-104B   PDV30-31P-103B   PDV30-21P-104A   PDV15-21D-102B   PDV15-31P-103B

PDV20-21H-202B   PDV20-31M-105A   PDV10-21H-203A   PDV20-21A-103B   PDV20-22A-103B   PDV30-21P-502B

PDV15-21M-104B   PDV20-21M-104B   PDV30-21B-104B   PDV30-21P-503A   PDV30-21P-503B